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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/597,467	02/14/2007	Alessandro Facchin	071308.0728	1533
31625 BAKER BOTT	7590 03/10/200 S L.L.P.	EXAMINER		
PATENT DEPA	ARTMENT	KIM, CHRISTOPHER S		
98 SAN JACINTO BLVD., SUITE 1500 AUSTIN, TX 78701-4039		00	ART UNIT	PAPER NUMBER
			3752	
			MAIL DATE	DELIVERY MODE
			03/10/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		10/597,467	FACCHIN, ALESSANDRO				
		Examiner	Art Unit				
		Christopher S. Kim	3752				
Period fo	The MAILING DATE of this communication approximation ap	opears on the cover sheet with the	correspondence address				
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REP CHEVER IS LONGER, FROM THE MAILING asions of time may be available under the provisions of 37 CFR of SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory perior re to reply within the set or extended period for reply will, by statutely received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be tid d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDON	N. imely filed in the mailing date of this communication. ED (35 U.S.C. § 133).				
Status							
1) 又	Responsive to communication(s) filed on <u>24</u>	December 2008					
•		is action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
٥/ك	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
	·	Ex parto Quayro, 1000 C.D. 11, 1	00 0.0. 210.				
Dispositi	on of Claims						
4)🛛	Claim(s) <u>1-20</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5) Claim(s) is/are allowed.						
6)🖂	Claim(s) <u>1-20</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction and	or election requirement.					
Applicati	on Papers						
9)☐ The specification is objected to by the Examiner.							
•	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
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	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the I		•				
		zxammen nete the attached eme	57 total 10 10 10 10 10 10 10 10 10 10 10 10 10				
	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notice (3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail I 5) Notice of Informal 6) Other:	Date				

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DETAILED ACTION

Response to Amendment

1. The response filed December 24, 2008 is acknowledged.

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 112

3. Claims 3-5 and 11-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 3 recites the limitation "a filler part that is taken in the cavity." The recitation renders the claim indefinite where claim 1 defines "wherein the cavity is empty."

Claim 3 recites the limitation "a filler part that is taken in the cavity." The recitation is a double inclusion of the "material" where claim 1 defines "wherein the cavity is filled with a material."

Claim 13 recites the limitation "a filler part that is arranged within the cavity." The recitation renders the claim indefinite where claim 11 defines "wherein the cavity is empty."

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Claim 13 recites the limitation "a filler part that is arranged within the cavity." The recitation is a double inclusion of the "material" where claim 13 defines "wherein the cavity is filled with a material."

Claim Rejections - 35 USC § 102

4. Claims 1-4, 6-8, 10-14, 16-18, 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Palma (4,423,842).

Palma discloses a valve body comprising:

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a needle 8;
a cartridge 32;
a recess 45;
a seat plate 46 comprising:
a needle seat 55;
the needle 8 further comprising:
a seat-part comprising:
a sealing area 74;
a cavity 91;
a fill part 90;
a sack volume 56.
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The functional recitation "...makes the seat-part flexible in the sealing area" in lines 11-12 merely requires the ability to flex. Substantially all materials are capable of some degree of flexure.

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Claim Rejections - 35 USC § 103

5. Claims 5, 9, 15 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Palma (4,423,842).

Regarding claims 5 and 15, Palma discloses the limitations of the claimed invention with the exception of the filler part consisting of plastics. Plastics are well known in the art. It would have been obvious to a person having ordinary skill in the art at the time of the invention to have made the filler part of Palma from plastics to reduce corrosion.

Regarding claims 9 and 19, Palma discloses the limitations of the claimed invention with the exception of the needle being inserted into the ball to define the cavity. Doing so is merely making the Palma's needle and ball as separate elements. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have provided a separate needle and ball in the device of Palma, since it has been held that constructing a formerly integral structure in various elements involves only routine skill in the art. *Nerwin v. Erlichman*, 168 USPQ 177, 179.

6. Claims 1, 3, 4, 6, 7, 10, 11, 13, 14, 16, 17, 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lambert et al. (6,338,445) in view of Stier (6,631.854).

Lambert discloses a valve body comprising:

a needle 12;

a cartridge 10;

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a needle seat 13a;
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the needle further comprising:

a seat-part comprising:

a sealing area 12b;

a cavity 17a, 27;

a filler part 18a;

a sack volume 37;

an actuator unit (fuel pump).

Lambert discloses the seat-part being flexible in figures 6 and 7 and in column 9, lines 55-60.

Lambert differs from what is being claimed in the cartridge comprising a seat plate. Lambert's seat plate is integral with the cartridge.

Stier discloses a fuel injector valve having a cartridge 2 having a seat plate 6.

It would have been obvious to a person having ordinary skill in the art at the time of the invention to have made the cartridge of Lambert into two parts to include a seat plate as taught by Stier to ease manufacturing.

Response to Arguments

7. Applicant's arguments filed December 24, 2008 have been fully considered but they are not persuasive.

Regarding Palma, Applicant argues that the cavity rather than the material of the valve 73 makes the claimed seat part flexible. The limitation "flexible" merely requires

the capability to flex. Palma's seat part of needle 8 is made flexible not only by the material but also by the cavity 91 because the flexibility of the seat part is inherently affected by the presence or absence of the cavity 91.

Applicant argues that Lambert does not disclose that the cavity makes the seat part flexible. The presence or absence of the cavity in Lambert inherently affects the flexibility of the seat part.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher S. Kim whose telephone number is (571)

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272-4905. The examiner can normally be reached on Monday - Friday, 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Len Tran can be reached on (571) 272-1184. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Christopher S. Kim/ Primary Examiner, Art Unit 3752

CK